

**ABSTRACT OF THE DISCLOSURE**

A wireless communication device with an embedded dual-band antenna system. The wireless communication device has a body, a housing, a shielding unit, a first antenna unit, a second antenna unit and a control unit. The shielding unit, the first antenna unit and the second antenna unit are disposed in the body, and the shielding unit, the first antenna unit and the second antenna unit are enclosed by the housing. The second antenna unit is separated from the first antenna unit by the shielding unit. The first antenna unit transmits a first signal and the second antenna unit transmits a second signal respectively. In a predetermined interval, the first signal and the second signal are transmitted simultaneously.